

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims

1. (Currently Amended) Process for the sterilization and/or germ reduction of two-component impression materials ~~and/or their components~~, comprising subjecting the ~~impression materials and/or their~~ two components to radiation sterilization.

2. (Currently Amended) Process according to Claim 1, wherein the impression materials and/or their components are ~~two-component impression materials, which are cross-linked into an elastomer material~~ elastomeric impression materials comprising two components cross-linkable together.

3. (Currently Amended) Process according to Claim 2, wherein the impression materials and/or their components further comprise: ~~additional condensation or via acrylate or methacrylate groups cross-linkable silicon impression materials, or addition, condensation, or via ring opening or acrylate or methacrylate groups cross-linkable polyether impression materials~~

i) silicone impression materials which are cross-linkable via addition curing or condensation curing reactions or via a cross-linking via acrylate or methacrylate groups; or

ii) polyether impression materials which are cross-linkable via addition curing or condensation curing reactions or via a cross-linking via acrylate or methacrylate groups or via a ring-opening reaction.

4. (Currently Amended) Process according to Claim 1, wherein the impression materials and/or their components are impression materials ~~which can be handled as a system~~ having a powder component and a fluid component.

5. (Previously Presented) Process according to Claim 4, wherein the impression materials and/or their components comprise an alginate impression material.

6. (Currently Amended) Process according to Claim 1, wherein in addition to said impression materials and/or their components, an additional addition cross-linking silicon impression material is used, which contains in the formulation said addition cross-linking silicon impression material comprising vinyl-group-containing polysiloxanes, said vinyl-group-containing polysiloxanes comprising with at least partially present in part diphenyl siloxane- and/or phenyl methyl siloxane structural units.

7. (Previously Presented) Process according to Claim 6, wherein polymers are used, which contain at least 3 Mol-% diphenyl siloxane and/or phenyl methyl siloxane units.

8. (Original) Process according to Claim 1, which further comprises sterilizing the impression material and/or its components in a primary packaging agent.

9. (Currently Amended) Process according to Claim 8, wherein the impression material and/or its components are arranged in the primary packaging and are simultaneously radiation treated with accessories for mixing or for application of the impression material.

10. (Original) Process according to Claim 8, wherein a twin-chamber cartridge is used as primary packaging and a mixing nozzle as accessory.

11. (Original) Process according to Claim 1, wherein the radiation sterilization is performed by means of gamma rays or electron rays.

12. (Previously Presented) Process according to Claim 11, wherein a radiation dose of a maximum of 50 kGy is used.

13.-15. (Canceled)

16. (Previously Presented) Process according to Claim 7, wherein the polymers used contain at least 10 Mol-% diphenyl siloxane and/or phenyl methyl siloxane units.

17. (Previously Presented) Process according to Claim 12, wherein a radiation dose of 20 to 30 kGy is used.

18. (Previously Presented) Process according to Claim 1, wherein the impression materials are crosslinking elastomeric impression materials.